

Chollas Creek BMP Retrofit Projects

July 2012

Caltrans

Con Kontaxis

NPDES/Storm Water
Compliance



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Project Background

I-15 Bus Rapid Transit (BRT)

- **Proposed: Austin Sand Filter**
- **Removes a variety of pollutants from stormwater including:**
 - METALS: Copper, Lead and Zinc
 - Bacteria
 - Diazinon



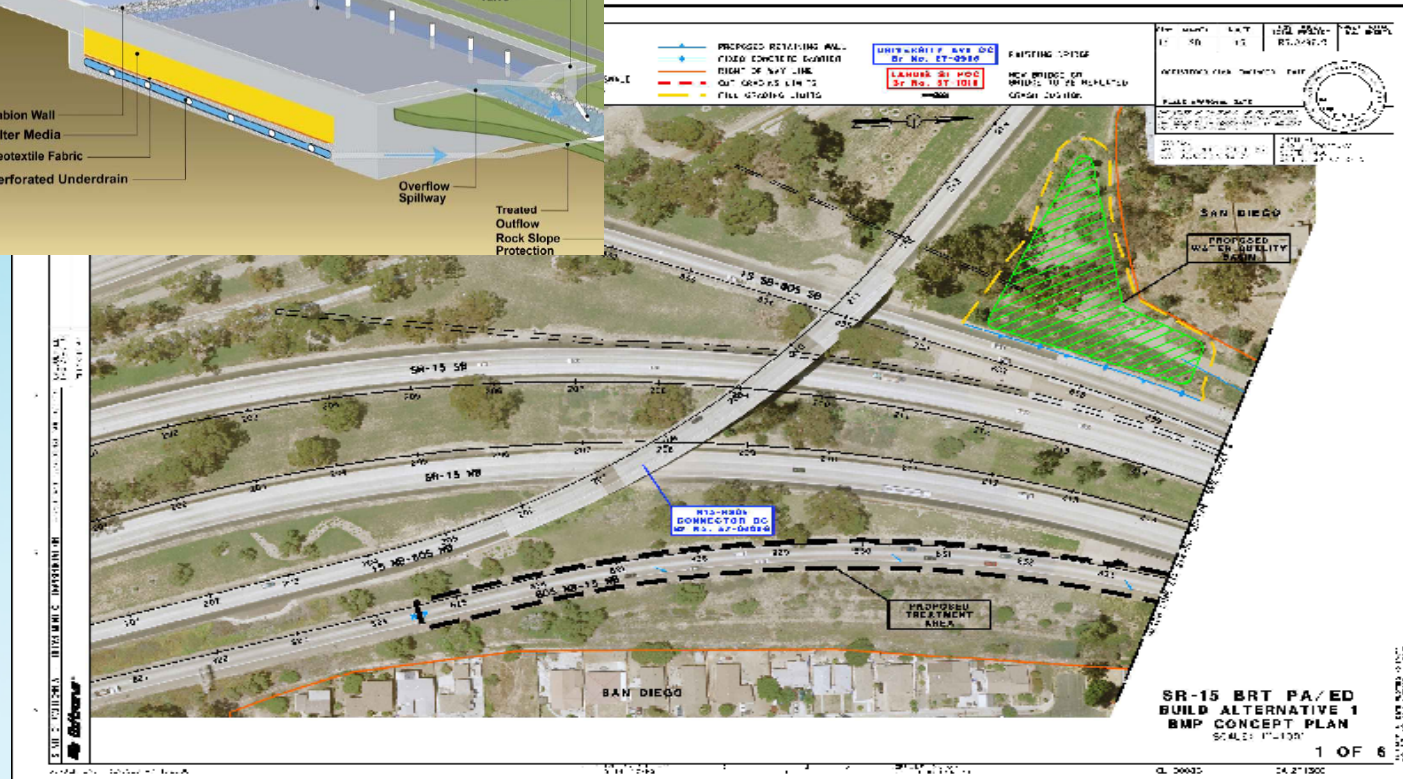
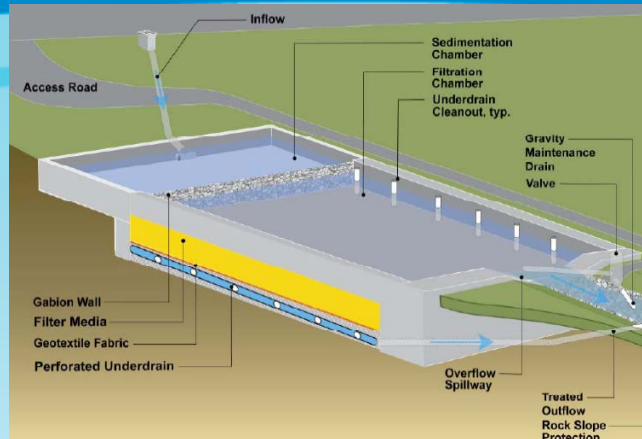
Project Schedule

I-15 BRT-Austin Sand Filter

- **Project Approval / Environmental Document (PA/ED)**
 - Completed July 2011
- **Plans, Specifications & Estimate**
 - December 2013
- **Begin Construction**
 - January 2015



Austin Sand Filter Location



Project Background

Rte 94/I-15 Chollas Creek

- **Proposed: 7 infiltration trenches and 3 biofiltration swales**
- **Removes a variety of pollutants from stormwater including:**
 - METALS- Copper, Lead and Zinc
 - Bacteria
 - Diazinon



Project Schedule

Infiltration Trenches/Biofiltration swales

- **Project Approval / Environmental Document (PA/ED)**
 - Completed May 2012
- **Plans, Specifications & Estimate**
 - November 2012
- **Begin Construction**
 - August 2013



Infiltration Trench Sample Construction Pictures (City of San Diego)



Infiltration Trench Locations

Project Title Sheet

INDEX OF PLANS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
 STATE HIGHWAY**
**IN SAN DIEGO COUNTY
 AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

DIST	COUNTY	ROUTE	PROJECT MILES	SHEET NO.	TOTAL SHEETS
11	SD	X		1	

LOCATION OF CONSTRUCTION 1
 "SD-94" BIOFILTRATION SWALE 1
 PM 2.2

LOCATION OF CONSTRUCTION 2
 "SD-94" BIOFILTRATION SWALE 2
 PM 2.2

LOCATION OF CONSTRUCTION 4
 "SD-94" BIOFILTRATION SWALE 3
 PM 2.9

LOCATION OF CONSTRUCTION 5
 "SD-94" INFILTRATION TRENCH 4
 PM 2.9

LOCATION OF CONSTRUCTION 7
 "SD-94" INFILTRATION TRENCH 5
 PM 2.9

LOCATION OF CONSTRUCTION 3
 "SD-94" INFILTRATION TRENCH 3
 PM 2.6

LOCATION OF CONSTRUCTION 8
 "SD-94" INFILTRATION TRENCH 6
 PM 3.1

LOCATION OF CONSTRUCTION 6
 "SD-15" INFILTRATION TRENCH 9
 PM 1.9

LOCATION OF CONSTRUCTION 9
 "SD-15" INFILTRATION TRENCH 8
 PM 1.8

LOCATION OF CONSTRUCTION 10
 "SD-15" INFILTRATION TRENCH 8
 PM 1.8

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

ORDER LAST REVISED 7/2/2010 CALTRANS WEB SITE IS: [HTTP://WWW.DOT.CA.GOV/](http://www.dot.ca.gov/)

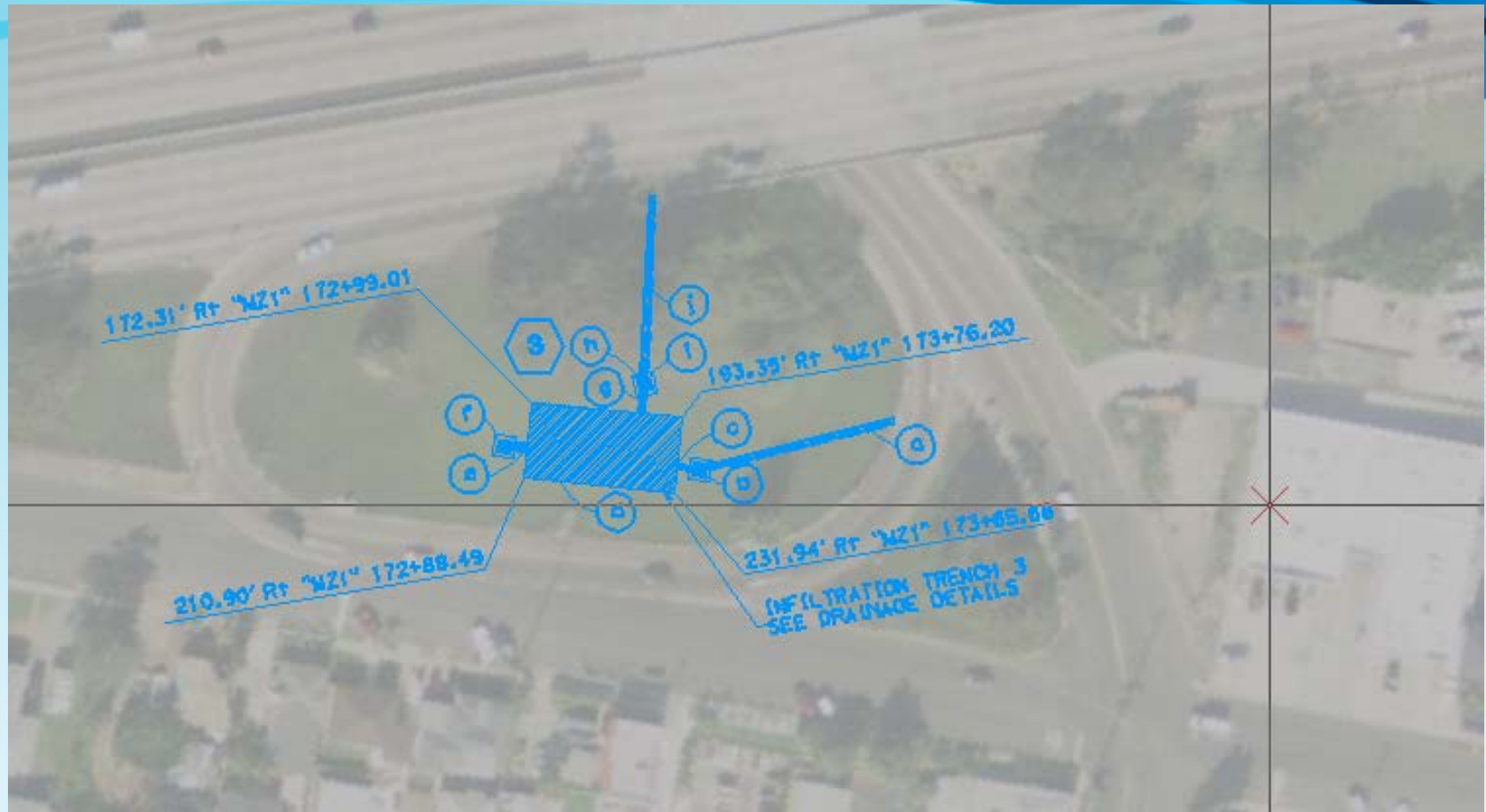
UNIT 2786 PROJECT NUMBER & PHASE 1100000314



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Infiltration Trench Location #3

EB 94 @ 32nd Street



Infiltration Trench Location #4

Median of SR-94 near SR-15



Infiltration Trench Location #5 & 6 Median of SR-94 at Chollas Creek

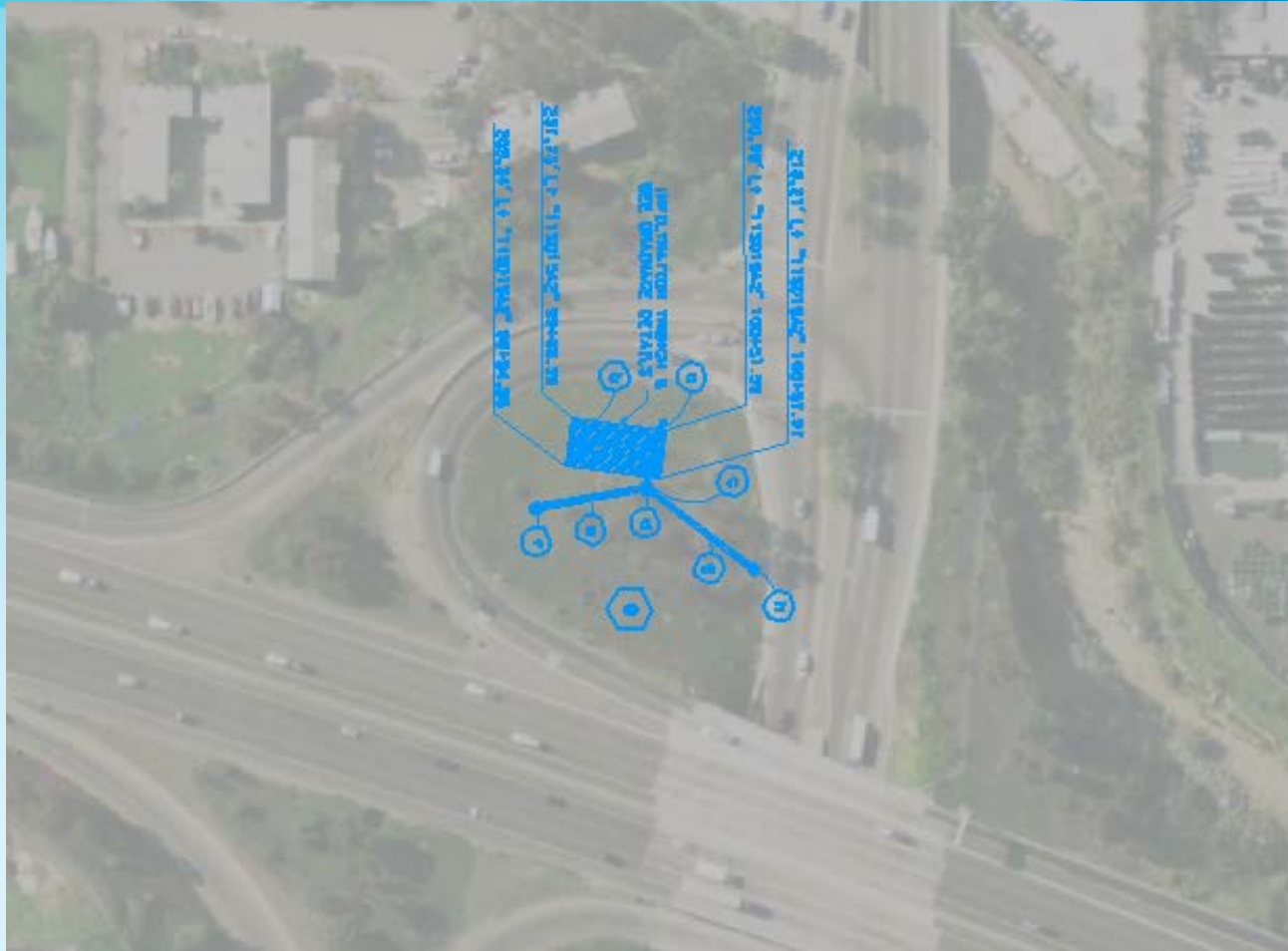


SB SR-15 South of SR-94 at Chollas Creek



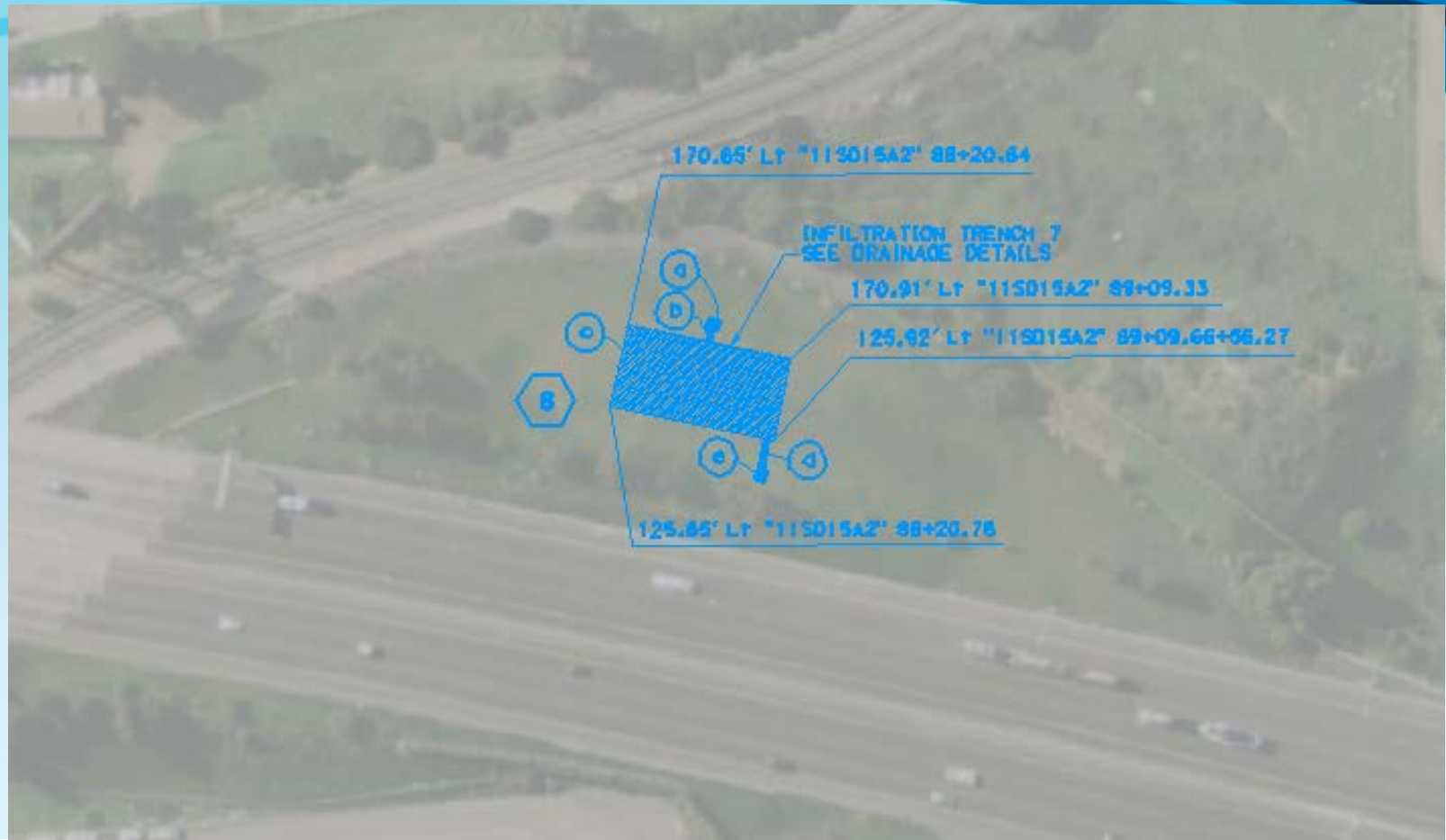
Infiltration Trench Location #8

SB SR-15 at Market Street



Infiltration Trench Location #7

SB SR-15 south of Market Street



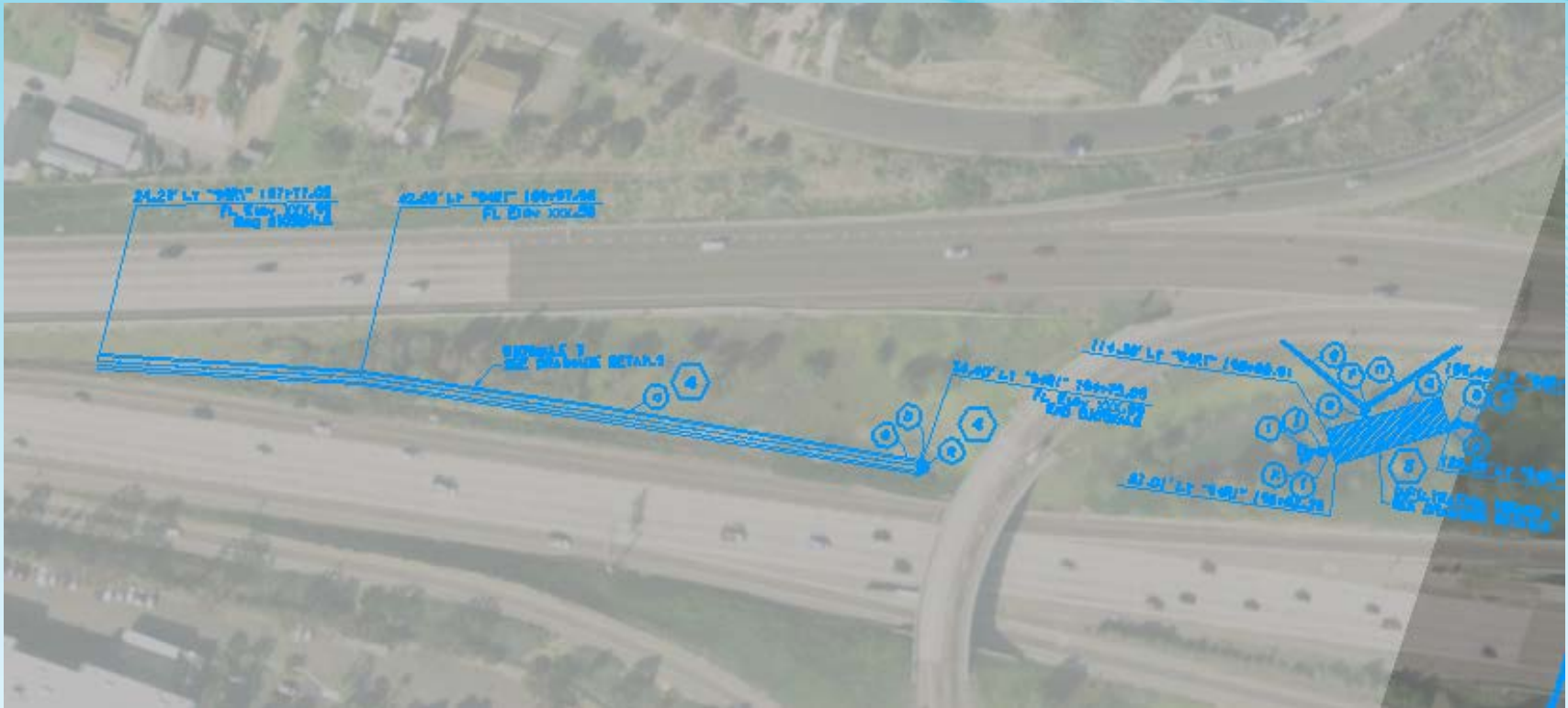
Biofiltration Swale Location #1 & 2

SR-94 at 28th Street



Biofiltration Swale Location # 3

Median of SR-94



Treatment Acreage

Existing and Proposed Treatment Tributary Areas

BMP TYPE	EXIST IMPERVIOUS WIDTH (FT)	EXIST IMPERVIOUS AREA (SQ FT)	FUTURE IMPERVIOUS WIDTH (FT)	FUTURE IMPERVIOUS AREA (SQ FT)
BIOFILTRATION SWALE 1	36	25200	46.00	32200
BIOFILTRATION SWALE 2	68	13600	80.00	16000
	28	5600	40.00	8000
INFILTRATION TRENCH 3	80	48000	92.00	55200
	68	40800	92.00	55200
BIOFILTRATION SWALE 3	80	176000	92.00	202400
	80	176000	80.00	176000
INFILTRATION TRENCH 4	80	40000	92.00	46000
	92	46000	92.00	46000
INFILTRATION TRENCH 5	68	54400	80.00	64000
	68	54400	92.00	73600
INFILTRATION TRENCH 6	80	128000	92.00	147200
	92	147200	104.00	166400
INFILTRATION TRENCH 7	56	67200	56.00	67200
	56	67200	56.00	67200
INFILTRATION TRENCH 8	56	44800	56.00	44800
	56	28000	56.00	28000
INFILTRATION TRENCH 9	56	56000	56.00	56000
	56	56000	56.00	56000
TOTAL		1,275,200	Square Feet	1,407,400
		29.27	Acres	32.31

Questions

